



UNITED STATES PATENT AND TRADEMARK OFFICE

UNITED STATES DEPARTMENT OF COMMERCE
United States Patent and Trademark Office
Address: COMMISSIONER FOR PATENTS
P.O. Box 1450
Alexandria, Virginia 22313-1450
www.uspto.gov

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/816,668	04/02/2004	Attila Simofi-Ilyes	2003P16621US01	9698

7590 10/05/2005

Elsa Keller, Legal Assistant
Intellectual Property Department
SIEMENS CORPORATION
170 Wood Avenue South
Iselin, NJ 08830

EXAMINER

PRESTON, ERIK D

ART UNIT	PAPER NUMBER
----------	--------------

2834

DATE MAILED: 10/05/2005

Please find below and/or attached an Office communication concerning this application or proceeding.

Office Action Summary

Application No.

10/816,668

Applicant(s)

SIMOFI-ILYES ET AL.

Examiner

Erik D. Preston

Art Unit

2834

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --

Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

Status

- 1) ☐ Responsive to communication(s) filed on ____.
- 2a) ☐ This action is **FINAL**. 2b) ☒ This action is non-final.
- 3) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

Disposition of Claims

- 4) ☒ Claim(s) 1-15 is/are pending in the application.
- 4a) Of the above claim(s) ____ is/are withdrawn from consideration.
- 5) ☐ Claim(s) ____ is/are allowed.
- 6) ☒ Claim(s) 1-15 is/are rejected.
- 7) ☐ Claim(s) ____ is/are objected to.
- 8) ☐ Claim(s) ____ are subject to restriction and/or election requirement.

Application Papers

- 9) ☐ The specification is objected to by the Examiner.
- 10) ☐ The drawing(s) filed on ____ is/are: a) ☐ accepted or b) ☐ objected to by the Examiner.
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).
- 11) ☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

Priority under 35 U.S.C. § 119

- 12) ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) ☐ All b) ☐ Some * c) ☐ None of:
- ☐ Certified copies of the priority documents have been received.
 - ☐ Certified copies of the priority documents have been received in Application No. ____.
 - ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).

* See the attached detailed Office action for a list of the certified copies not received.

Attachment(s)

- ☒ Notice of References Cited (PTO-892)
- ☐ Notice of Draftsperson's Patent Drawing Review (PTO-948)
- ☒ Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08)
Paper No(s)/Mail Date 05/24/2004 9/27/04
- ☐ Interview Summary (PTO-413)
Paper No(s)/Mail Date. ____
- ☐ Notice of Informal Patent Application (PTO-152)
- ☒ Other: IDS: 09/27/2005

DETAILED ACTION

Claim Rejections - 35 USC § 102

The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless –

(b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.

Claims 1-15 are rejected under 35 U.S.C. 102(b) as being anticipated by McMillen (US 4296343 supplied by applicant).

With respect to claims 1,3,6,10 & 13 McMillen teaches a stator assembly for a brush-type permanent magnet DC motor having N number of poles, the stator assembly comprising: A stator body (Fig. 3, #12) having a central axis and an annular inner wall disposed about the central axis, the inner wall having a raised portion (Fig. 3, #54) and a recess (Fig. 3, #42) adjacent to the raised portion, the raised portion being closed to the central axis than the recess, the at least one raised portion having a flux recovery feature (Col. 1, Lines 26-45), and a permanent magnet (Fig. 3, #50) mounted within the recess and defining with the flux recovery feature, a magnetic circuit, wherein an inside radius of the magnet is substantially the same as, and concentric with, an inside radius of the raised portion as measured from the central axis, wherein, in section, the at least one raised portion is joined with a surface defining the recess by a generally S-shaped structure thereby defining a curved transition there-between, wherein a number of raised portions is equal to a number of magnets and the number of magnets is N/2.

With respect to claims 2 & 11, McMillen teaches the stator of claims 1 & 10, wherein two raised portions and two magnets are provided (as seen in Fig. 3).

With respect to claims 4,8 & 14, McMillen teaches the stator of claims 1,6 & 10, wherein the raised portion is integral with the stator body.

With respect to claims 5,9 & 15, McMillen teaches the stator of claims 1,6 & 10, wherein an exposed surface of the means for recovering flux is of substantially the same dimensions as an exposed surface of the magnet (as seen in Fig. 3).

With respect to claim 7, McMillen teaches the stator of claim 6, wherein two raised portions and two magnets are provided for a four-pole motor (Col. 1, Lines 59-65).

With respect to claim 12, McMillen teaches the stator of claim 10, wherein the means for recovering flux includes a plurality of raised portions extending from the inner wall, and a plurality of permanent magnets are provided with one magnet being disposed between two raised portions (as seen in Fig. 3).

Conclusion

The prior art made of record and not relied upon is considered pertinent to applicant's disclosure. US 4542314, US 4973871, US 5121021, US 6548930 & US 2002/0096957.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Erik D. Preston whose telephone number is 571-272-8393. The examiner can normally be reached on Monday through Friday 8-5.

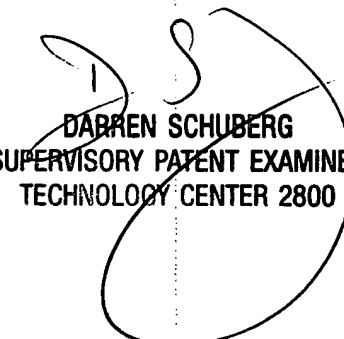
Art Unit: 2834

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Darren Schuberg can be reached on 571-272-2044. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).



09/23/2005



DARREN SCHUBERG
SUPERVISORY PATENT EXAMINER
TECHNOLOGY CENTER 2800